

CLAIMS

1. Equipment for leading a web threading tail in a paper machine, which equipment includes at least two sequential
5 surfaces (11) in the direction of travel of the web threading tail (10), between which a nozzle (12) is arranged in order to form a directed air blast and thus to transport the web threading tail (10), being lead onto the first surface (11) in the direction of travel of the web threading tail (10), onwards
10 to the following surface (11), characterized in that the equipment includes an element (13), in which an exhaust zone (20) is arranged in the surface (11) before the nozzle (12) in the direction of travel of the web threading tail (10), for leading the air away from the element (13) between the web
15 threading tail (10) and the surface (11).

2. Equipment according to Claim 1, characterized in that an exhaust zone (20) is arranged before each nozzle (12).

20 3. Equipment according to Claim 1 or 2, characterized in that an exhaust channel (21), which is connected to the exhaust zone (20), is arranged in the element (13).

4. Equipment according to any of Claims 1 - 3, character-
25 ized in that the equipment includes at least two cellular elements (13), arranged in a staggered manner relative to each other, so that the nozzle (12) is the gap (14) formed between the elements (13) and the surface (11) is the wall on the side of the said gap (14) of the walls delimited by the element
30 (13).

5. Equipment according to Claim 4, characterized in that the sequential elements (13) are fitted detachably to each other using connector devices (15), for setting the size and
35 shape of the gap (14) as desired, by altering the mutual position and alignment of the elements.

6. Equipment according to Claim 4 or 5, characterized in that the element (13) is a duct of sheet metal with a cross-section of an essentially rectangular shape, which is arranged to be closed at at least one end with an end piece (17), and into which the air is arranged to be led.

7. Equipment according to any of Claims 4 - 6, characterized in that the length of the element (13) is 50 - 400 mm, preferably 100 - 300 mm.

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8. Equipment according to any of Claims 4 - 7, characterized in that, after the gap (14) in the direction of travel of the web threading tail (20), there is a lubrication zone (19) in the wall forming the surface (11), for leading air from inside the element (13) between the web threading tail (10) and the surface (11).

9. Equipment according to Claim 1 or 8, characterized in that the zones (19, 20) formed of gaps or holes extend over the entire width of the element (13) and that their length is 5 - 30 %, preferably 10 - 20 % of the length of the element (13).

10. Equipment according to any of Claims 4 - 9, characterized in that each element (13) is essentially identical and that in at least one wall of the element (13) there is an opening (22), which is arranged to be filled with a connection (23) for leading air into the element (13), or with a support bracket (24) for supporting the equipment from the paper machine, or with a plug (25), which closes the opening (22).

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11. Equipment according to any of Claims 4 - 10, characterized in that the height of the gap (14) is 0,5 - 10 mm, preferably 1 - 4,5 mm, in which case the velocity of the air discharging from the gap (14) from inside the element (13) at an excess pressure of 1 - 30 kPa will be restricted to the range 40 - 200 m/s.

12. Equipment according to any of Claims 1 - 11, characterized in that the equipment includes a fan (26) for feeding air into the element (13).

5 13. Equipment according to Claim 12, characterized in that the said fan (26) is preferably the fan of some other device in the vicinity of the equipment, which other device is switched during web threading.

10 14. Equipment according to any of Claims 1 - 3, characterized in that the nozzle (12) is a gap nozzle (14), which is formed from a blast opening (27) arranged in the base material of the surface (11) of sheet material.

15 15. Equipment according to Claim 14, characterized in that the exhaust zone (20) is formed of one or several exhaust openings (28), the structure of which is arranged to be similar to the structure of the blast opening (27), but the other way round.